

Release notes for ENDF/B Development n-050_Sn_117
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5040, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5040, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 254 TO 307
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5040, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5040, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 254
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5040, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 309
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 559
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 587
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 615
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 632
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 644

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 650

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 664

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 674

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 682

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 699

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 715

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 730

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 55 | |
| | SECTION 3/ 55 NOT IN DIRECTORY | RECORD NUMBER 744 |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 56 | |
| | SECTION 3/ 56 NOT IN DIRECTORY | RECORD NUMBER 757 |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 57 | |
| | SECTION 3/ 57 NOT IN DIRECTORY | RECORD NUMBER 770 |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 58 | |
| | SECTION 3/ 58 NOT IN DIRECTORY | RECORD NUMBER 782 |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 59 | |
| | SECTION 3/ 59 NOT IN DIRECTORY | RECORD NUMBER 794 |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 60 | |
| | SECTION 3/ 60 NOT IN DIRECTORY | RECORD NUMBER 805 |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 61 | |
| | SECTION 3/ 61 NOT IN DIRECTORY | RECORD NUMBER 816 |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 62 | |
| | SECTION 3/ 62 NOT IN DIRECTORY | RECORD NUMBER 827 |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT= 91 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 91 | | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER | 837 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT=102 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 847 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT=103 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT=103 | | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 870 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT=104 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT=104 | | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 885 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT=105 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT=105 | | |
| | SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER | 897 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 3, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 3, MT=107 | | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 908 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 2 (0): Directory (b)
- | | | | |
|--|--|---------------|-----|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 2 | | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER | 925 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 16 | | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER | 1100 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 17 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 17 | |
| | SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 1111 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 22 | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 1122 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 28 | |
| | SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 1133 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 32 | |
| | SECTION 4/ 32 NOT IN DIRECTORY | RECORD NUMBER 1144 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 51 | |
| | SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER 1155 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 52 | |
| | SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER 1185 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 53 | |
| | SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER 1212 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 54 | |
| | SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER 1241 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 55 | RECORD NUMBER | 1266 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 56 | RECORD NUMBER | 1291 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 57 | RECORD NUMBER | 1316 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 58 | RECORD NUMBER | 1341 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 59 | RECORD NUMBER | 1366 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 60 | RECORD NUMBER | 1391 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 61 | RECORD NUMBER | 1416 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 62 | RECORD NUMBER | 1441 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 4, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 4, MT= 91
SECTION 4/ 91 NOT IN DIRECTORY RECORD NUMBER 1466

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 16
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 1492

49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 17
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 1559

50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1584

51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1759

52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 32
SECTION 5/ 32 NOT IN DIRECTORY RECORD NUMBER 1847

53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5040, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5040, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1880

• **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 117. L = 0 / AT RESONANCE ENERGY 5.80800E+02 EV. THE GAMMA WIDTH 5.00000E-05 DEVIATES TOO MUCH FROM THE AVERAGE 1.03943E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 117. L = 0
AT RESONANCE ENERGY 5.80800E+02 EV. THE GAMMA WIDTH 5.00000E-05 DEVIATES TOO MUCH FROM THE AV

- Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 117. L = 0 / AT RESONANCE ENERGY 1.35860E+03 EV. THE GAMMA WIDTH 7.00000E-05 DEVIATES TOO MUCH FROM THE AVERAGE 1.03943E-01 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 117. L = 0
AT RESONANCE ENERGY 1.35860E+03 EV. THE GAMMA WIDTH 7.00000E-05 DEVIATES TOO MUCH FROM THE AV
```

- recent Warnings:

- Statistical weight of certain L values were incorrect
0: RRR goof (a)

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [503 more lines]
```

- fudge-4.0 Warnings:

- Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.28%

- Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.14%

- fudge-4.0 Errors:

- The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statistical weights for L=1 sums to 2.25, but should sum to 3.0. You have too few channels for r

- Calculated and tabulated Q values disagree.
reaction label 14: n[multiplicity:'2'] + Sn116 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6660533.040771484 eV vs -6.9489e6 eV!

- Calculated and tabulated Q values disagree.
reaction label 15: n[multiplicity:'3'] + Sn115 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16223980.0447998 eV vs -1.6516e7 eV!

- Calculated and tabulated Q values disagree.
reaction label 16: n + H1 + In116 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9156275.101806641 eV vs -9439530. eV!

5. Calculated and tabulated Q values disagree.
reaction label 17: $n + H2 + In115$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13716429.1542511 eV vs -1.39175e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 18: $Sn118 + gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 9610054.634933472 eV vs 9326190. eV!

7. Calculated and tabulated Q values disagree.
reaction label 19: $n + He4 + Cd113$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3492959.971069336 eV vs -3770490. eV!

8. Calculated and tabulated Q values disagree.
reaction label 20: $H1 + In117-s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -389933.6356201172 eV vs -672430. eV!

9. Calculated and tabulated Q values disagree.
reaction label 21: $H2 + In116-s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6931709.000869751 eV vs -7129410. eV!

10. Calculated and tabulated Q values disagree.
reaction label 22: $H3 + In115-s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7459196.213638306 eV vs -7732350. eV!

11. Calculated and tabulated Q values disagree.
reaction label 23: $He4 + Cd114-s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5550019.391677856 eV vs 5.2749e6 eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided